

Appl. No. 10/669219
Reply to Office action of 1/25/2005

REMARKS

Favorable reconsideration of this application is requested in view of the above amendments and the following remarks. Claims 1 and 9 are hereby amended.

The amendment of claims 1 and 9, reciting that the conductor lead forms two inductance element portions and an additional external terminal portion is branched off from between the two inductance element portions, is supported, for example, by Figure 6A and page 7, lines 28-34. The amendment of claim 9, reciting "a width of the inductance element portion connected to the external terminal portion is larger than a width of the inductance element portion connected to the internal terminal portion", is supported by Figure 6A, where the width of third inductor 39 is shown to be larger than the width of fourth inductor 40.

Claims 1 and 9 were rejected as being unpatentable over Ichikawa (US 5,905,301) in view of Gibson (US 6,621,140). Applicants traverse this rejection. Neither Ichikawa nor Gibson suggests that the conductor lead has two inductance element portions from between which the external terminal portion branches. This feature provides the semiconductor chip with two signals having different impedances.

Claim 9 further requires "a width of the inductance element portion connected to the external terminal portion is larger than a width of the inductance element portion connected to the internal terminal portion" (see Figure 6A). Neither Ichikawa nor Gibson suggests this inductance element width configuration. In the invention of claim 9, an external inductance, defined as the inductance element portion connected to the external terminal portion, has an inductance larger than that of an internal inductance, defined as the inductance element portion connected to the internal terminal portion. The advantage of this configuration is appreciated when a high-frequency signal is supplied to the external terminal portion, which branches from between the two inductance element portions, and a source voltage is supplied to the external terminal portion at the end of the external inductance, in that a leakage of the high-frequency signal to the power source is suppressed due to the larger impedance of the power source side (through the external inductance).

Appl. No. 10/669219
Reply to Office action of 1/25/2005

Further, neither Ichikawa nor Gibson suggests providing different impedances of inductance elements, as they do not teach intentionally changing a length or thickness of a bonding wire.

Favorable reconsideration of claim 1 and 9 is requested.

Claim 4 was rejected as being unpatentable over Ichikawa, in view of Gibson, and further in view of Ohmuro (US 5,994,763). Applicants traverse this rejection. Ohmuro does not remedy the deficiencies of Ichikawa and Gibson, as previously noted. Applicants are not conceding the correctness of the rejection as applied to the rejected claim. Favorable reconsideration of claim 4 is requested.

Claim 5 was rejected as being unpatentable over Ichikawa, in view of Gibson, and further in view of Efland (US 6,140,702). Applicants traverse this rejection. Efland does not remedy the deficiencies of Ichikawa and Gibson, as previously noted. Applicants are not conceding the correctness of the rejection as applied to the rejected claim. Favorable reconsideration of claim 5 is requested.

Claims 6 and 7 were rejected as being unpatentable over Ichikawa and further in view of Fithian (US 4,967,258). Applicants traverse this rejection. Fithian does not remedy the deficiencies of Ichikawa, as previously noted. Applicants are not conceding the correctness of the rejection as applied to the rejected claims. Favorable reconsideration of claims 6 and 7 is requested.

Claim 8 was rejected as being unpatentable over Ichikawa and further in view of Dobrovolny (US 3,909,726). Applicants traverse this rejection. Dobrovolny does not remedy the deficiencies of Ichikawa, as previously noted. Applicants are not conceding the correctness of the rejection as applied to the rejected claim. Favorable reconsideration of claim 8 is requested.

Appl. No. 10/669219
Reply to Office action of 1/25/2005

In view of the above, favorable reconsideration in the form of a notice of allowance is requested. Any questions regarding this communication can be directed to the undersigned attorney, Douglas P. Mueller, Reg. No. 30,300, at (612)455-3804.

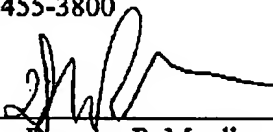


Respectfully submitted,

HAMRE, SCHUMANN, MUELLER & LARSON, P.C.
P.O. Box 2902-0902
Minneapolis, MN 55402
(612)455-3800

Dated: April 25, 2005

By



Douglas P. Mueller
Reg. No. 30,300

DPM:mfe